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CLAIMS

communication system, the method comprising:

1 A method for processing shared sub-packets in a

generating a first control channel comprising an identity of at least one subscriber station and a number of second control channels;

generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel.

2 The method as claimed in claim 1, wherein said generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel comprises:

generating at least one second control channel comprising a number of code channels encoding a unit of the traffic channel.

3 The method as claimed in claim 1, wherein said generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel comprises:

generating at least one second control channel comprising a number of sub-divisions and a starting sub-division of a unit of the traffic channel.

4 The method as claimed in claim 1, further comprising:

transmitting the first control channel at a power required by a subscriber station with the worst forward link quality metric for which the first control channel is intended.

determined position; and

	5 The method as claimed in claim 1, further comprising:										
2	transmitting the at least one second control channel at a power										
	required by the at least one subscriber station for which the at least one										
4	second control channel is intended.										
	6 A method for processing shared sub-packets at a										
2	subscriber station, the method comprising:										
	demodulating a first control channel comprising an identity of at										
4	least one subscriber station and a number of control channels;										
	demodulating a second control channel comprising information										
6	enabling a subscriber station to demodulate a traffic channel if the identity										
	is identical to an identity of the subscriber station; and										
8	demodulating the traffic channel in accordance with said enabling										
	information.										
	7 The method as claimed in claim 6, wherein said										
2	demodulating a first control channel comprising identity of a subscriber										
	station comprises:										
4	demodulating a pre-determined control channel.										
	The method as claimed in claim 6, wherein said										
2	demodulating a second control channel comprising information enabling a										
	subscriber station to demodulate a traffic channel if the identity is identical										
4	to an identity of the subscriber station comprises:										
	determining position of the identity within the received first control										
6	channel;										
	selecting a second control channel in accordance with said										

demodulating said selected second control channel.

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	37										
	9 The method as claimed in claim 8, wherein said										
2	selecting a second control channel in accordance with said determined										
	position comprises:										
4	establishing a code encoding a second control channel in										
	accordance with a relationship between said determined position and the										
6	code; and										
	demodulate the second control channel encoded by said										

established code.

The method as claimed in claim 6, wherein said 10 demodulating the traffic channel in accordance with said enabling information comprises:

determining a size of traffic channel unit and a number of code channels in accordance with the enabling information if the traffic channel unit is code multiplexed; and

demodulate the traffic channel unit.

11 The method as claimed in claim 6, wherein said demodulating the traffic channel in accordance with said acquired enabling information comprises:

determining a number of sub-divisions of traffic channel unit and a starting sub-division in accordance with the enabling information if the traffic channel unit is time multiplexed; and

demodulate the traffic channel unit.

12 A method for processing shared sub-packets in a communication system, the method comprising:

generating a first control channel comprising an identity of at least one subscriber station and a number of second control channels;

		generating at least one second control channel comprising
	6	information enabling the at least one subscriber station to demodulate a
		traffic channel;
	8	transmitting the control channels:
		demodulating the received first control channel;
	10	determining an identity of at least one subscriber station and a
		number of second control channels in accordance with said demodulated
	12	first control channel;
		demodulating a second control channel comprising information
	14	enabling a subscriber station to demodulate a traffic channel if the identity
		is identical to an identity of the subscriber station; and
The state	16	demodulating the traffic channel in accordance with said enabling
m / 1		information.
Find State		
He Hard South He Hard Brown Street Will Hold Read Street Hard Street Hard Read Street Hard		13 The method as claimed in claim 12, wherein said
	2	generating at least one second control channel comprising information
		enabling the at least one subscriber station to demodulate a traffic channel
al al	4	comprises:
		generating at least one second control channel comprising a
	6	number of code channels encoding a unit of the traffic channel.
		14 The method as claimed in claim 12, wherein said
	2	generating at least one second control channel comprising information
		enabling the at least one subscriber station to demodulate a traffic channel
	4	comprises:
		generating at least one second control channel comprising a
	6	number of sub-divisions and a starting sub-division of a unit of the traffic
		channel.

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transmitting the control channels comprises:

The method as claimed in claim 12, wherein said

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	transmitting the first control channel at a power required by a
4	subscriber station with the worst forward link quality metric for which the
	first control channel is intended.

- The method as claimed in claim 15, further comprising: transmitting the at least one second control channel at a power required by the at least one subscriber station for which the at least one second control channel is intended.
- 17 The method as claimed in claim 12, wherein said demodulating the received first control channel comprises:

 demodulating a pre-determined control channel.
- The method as claimed in claim 12, wherein said demodulating a second control channel comprising information enabling a subscriber station to demodulate a traffic channel if the identity is identical to an identity of the subscriber station comprises:

determining position of the identity within the received first control channel;

selecting a second control channel in accordance with said determined position; and

demodulating said selected second control channel.

19 The method as claimed in claim 18, wherein said selecting a second control channel in accordance with said determined position comprises:

establishing a code encoding a second control channel in accordance with a relationship between said determined position and the code; and

demodulate the second control channel encoded by said established code.

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demodulating	the	traffic	chan	nel	in	acco	rda	nce	with	said	ena	bling
information comprises:												

determining a size of traffic channel unit and a number of code channels in accordance with the enabling information if the traffic channel unit is code multiplexed; and

demodulate the traffic channel unit.

21 The method as claimed in claim 12, wherein said demodulating the traffic channel in accordance with said acquired enabling information comprises:

determining a number of sub-divisions of traffic channel unit and a starting sub-division in accordance with the enabling information if the traffic channel unit is time multiplexed; and

demodulate the traffic channel unit.